Gulf of Mexico Harmful Algal Bloom Bulletin

9 April 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: April 5, 2007

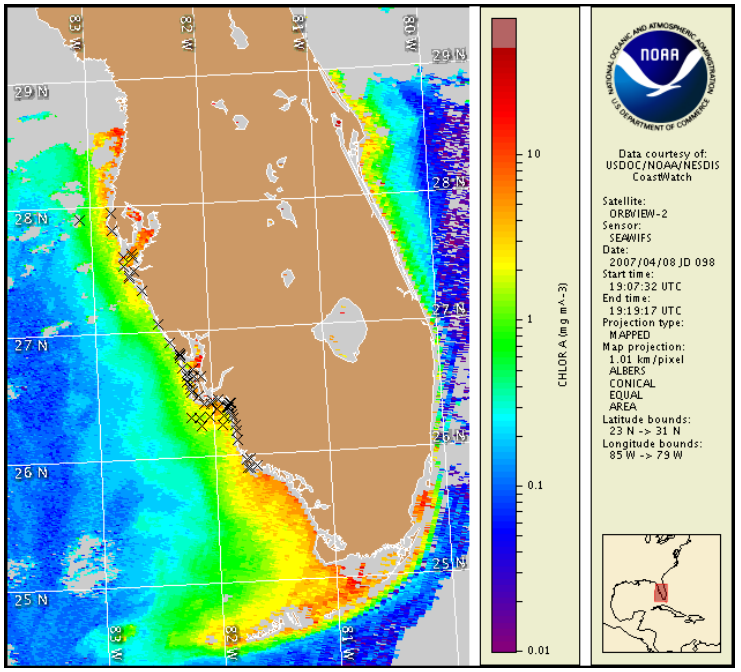
Conditions Report

There is no indication of harmful algal bloom presence alongshore Southwest Florida, including the Keys region, at the present time. No impacts are expected in any Florida County through Thursday.

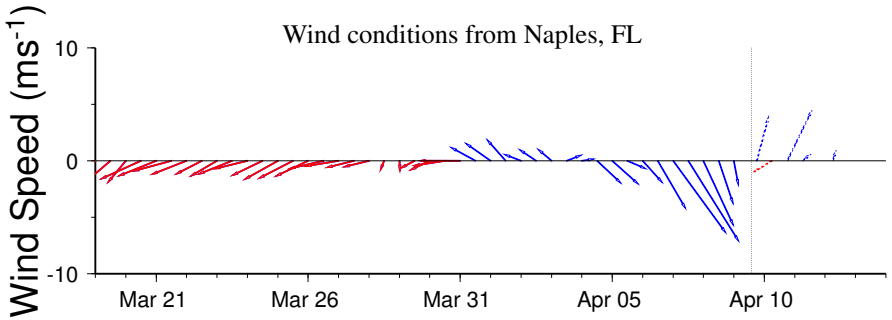
Analysis

No *Karenia brevis* has been identified alongshore SW Florida or in the Keys region over the past two weeks (FWRI, MML). This corresponds with continually dissipating chlorophyll levels along the coast. However, over the past few days an elevated chlorophyll (3-5μg/L; 4/8) patch became visible just south of Sanibel Island from 26°22'N, 81°59.4'W to 26°16.5'N, 81°59.1'W. Offshore sampling conducted on 4/4 by FWRI identified the presence of non-harmful algal species in this general region; however it is possible that *Karenia brevis* also exists within this feature. Sampling is recommended. Chlorophyll levels have additionally increased up to 8μg/L south of Cape Romano near 25°50.2'N, 81°34'W over the past few days. Southerly directed winds throughout the week may transport these features northward and slightly closer to shore. Intensification is unlikely through Thursday.

~Fisher, Keller



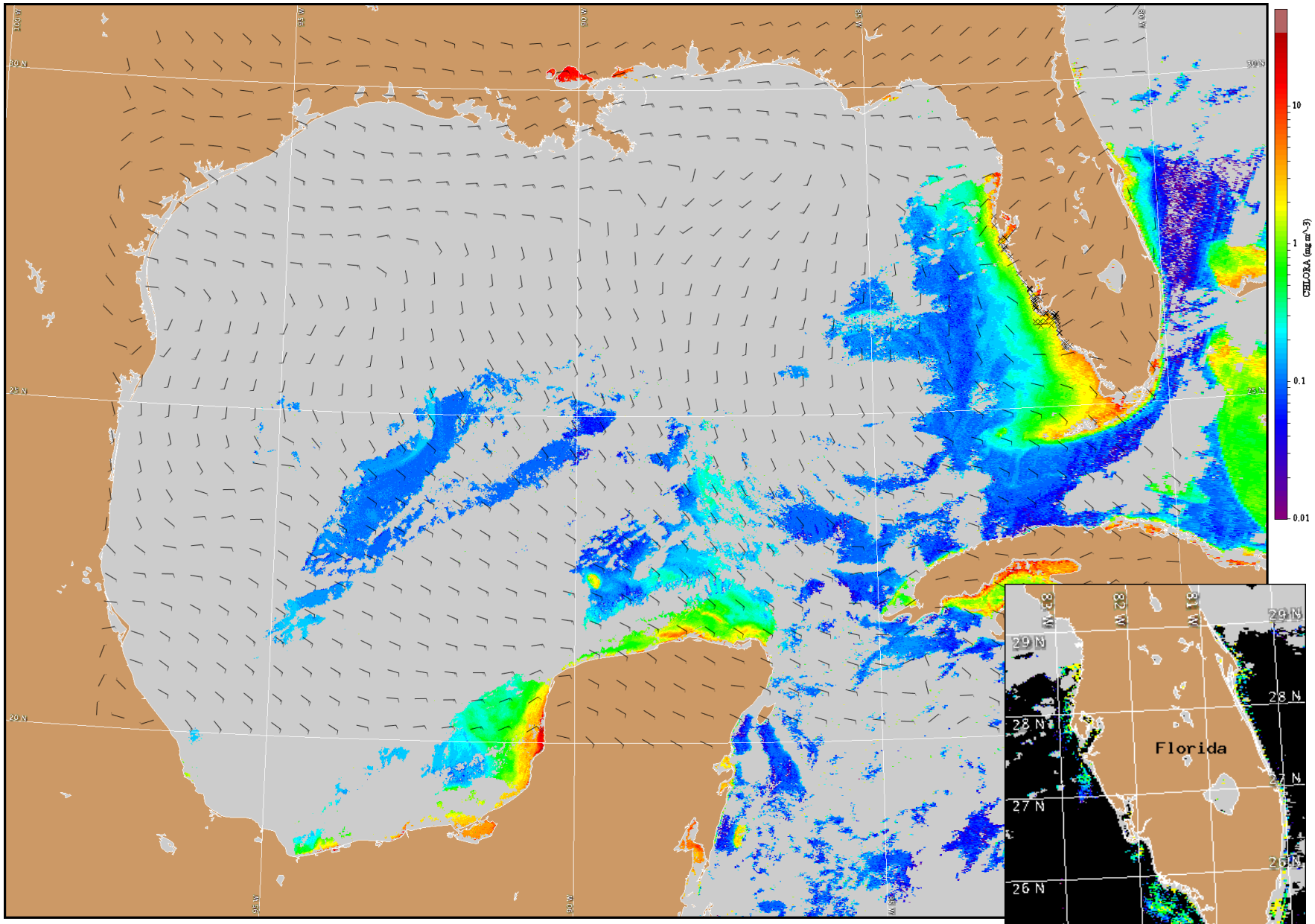
Satellite chlorophyll image with possible HAB areas shown by red polygon(s).Cell concentration sampling data from March 30-April 5 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf



Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: East winds today (10-15kts, 5-8m/s), shifting southerly to southeasterly tonight. Stronger (15-20kts, 8-10m/s) southerly winds expected Tuesday, shifting southwesterly Tuesday night. Continuing southerlies Wednesday and Thursday (10kts).

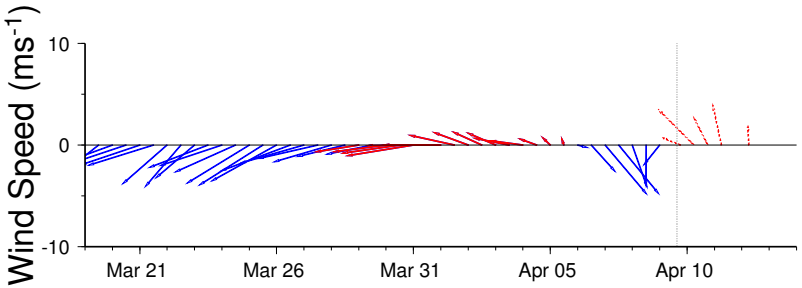
Lower Keys: East to southeast winds today and Tuesday, shifting south to southwest Tuesday night through Thursday (10-15kts, 5-8m/s).



Satellite chlorophyll image and forecast winds for April 10, 2007 06Z with cell concentration sampling data from March 30-April 5 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the the HABFS bulletin guide: http://www.csc.noaa/gov/crs/habf/habfs_bulletin_guide.pdf

Verifi ed HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Vaca Key, FL



Wind conditions from Venice Pier, FL